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Mar 24, 1989

PUB-NO: JP401078672A  
DOCUMENT-IDENTIFIER: JP 01078672 A  
TITLE: HEAT EXCHANGER

PUBN-DATE: March 24, 1989

## INVENTOR-INFORMATION:

NAME	COUNTRY
KAMIYA, SADAYUKI	

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
NIPPON DENSO CO LTD	

APPL-NO: JP62237715  
APPL-DATE: September 22, 1987

US-CL-CURRENT: 228/183  
INT-CL (IPC): B23K 1/12; F28F 9/02

## ABSTRACT:

PURPOSE: To locally coat a flux and to reduce the consumption amt. by forming the hole to feed a flux on one part of the projection bar parts provided by projection in the direction that the tip is mutually abutting on the substrate and cover plate of a tank which are inserted to one part of the end of respective tube to which a fin is arranged.

CONSTITUTION: A heat exchanging unit 2 is composed of the numerous tubes 21 arranged in parallel and the fin 22 arranged among the tube 21. An upper side tank 3 is composed of a substrate 4 and cover plate 5, the hole 41 penetrating the upper end part 24 of the numerous tubes 21 is formed on the substrate 4 and on the center part 42 of the substrate 4 the projection bar part 43 abutting to the cover plate 5 is formed. The cover plate 5 is joined to the upper end edge of the upper substrate 4 at its lower end edge. On the center part 52 of the cover plate 5 a projection bar part 53 is formed in the direction abutting to the projecting bar part 43 of the substrate 4 and on the lower end face of the projection bar part 53 the abutting part (a) to the upper end face of the projecting bar part 43 of the substrate 4 is formed. On the projection bar part 53 a slit 53b is formed in the direction facing from the front face to the rear face and used as the hole to feed a flux 9 to the joining place (a) after assembling an upper side tank 3 to the heat exchanging unit 2.

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DATE: Thursday, October 10, 2002

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L6	l4 and (liquid or fluid or molten or coat or coating or flux or fin or peak or top or tip) near (exclusive or selective or exclusively or selectively)	1	L6
L5	l4 and (liquid or fluid or molten or coat or coating or flux) near (fin or peak or top or tip)	8	L5
L4	L3 and heat exchanger	42	L4
L3	(liquid or fluid or molten or coat or coating) near flux and fin and (peak or top or tip)	72	L3
L2	heat exchanger and (liquid or fluid or molten) near flux and fin and (peak or top or tip)	24	L2
L1	heat exchanger and (liquid or fluid or molten) near flux and fin and (peak or top or tip)	0	L1

END OF SEARCH HISTORY